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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/922,153	08/06/2001	Dov Moran	M01/20	3977	
7.	590 05/07/2003				
DR. D. GRAESER LTD. C/O THE POLKINGHORNS 9003 FLORIN WAY			EXAMINER		
			VITAL, PIERRE M		
UPPER MARLBORO, MD 20772			ART UNIT	PAPER NUMBER	
			2188	6	
			DATE MAILED: 05/07/2003	DATE MAILED: 05/07/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)   App			\ \ <b>/</b>			
Examiner		Application No.	Applicant(s)			
Perro M. Vital  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Eatherbord to the margin be arreadiled under the specificant of DCR 1.138(a). In no event, however, may a reply to timely filed  Eatherbord to the margin be arreadiled under the specificant of DCR 1.138(a). In no event, however, may a reply to timely filed  Eatherbord to the margin specifical shows it is as him brind; 001 days, a reply within the satisfactive primitive pri	, Office Action Commence	09/922,153	MORAN, DOV			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions or time may be existed used the previous of \$1.0781.13(b). In to event, however, may a reply be limitly filled  Extensions or time may be existed used the previous of \$1.0781.13(b). In the existed replication of the communication of \$1.0781.13(b). In the period for reply is predicted above in the shart help (50) days, as reply within the statutory predicted allow predicted prediction of the period for reply is predicted above, the maximum station predicted in graph will be considered threaty.  If No period for reply is predicted above is the shart threaty of the period of reply is the period of reply in the communication.  If No period or reply is predicted and period of the period	Office Action Summary	Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Estensions of time may be available under the processions of 31 CPR 1.158(a). In no event, however, may a righty be limitly filled.  Estensions of time may be available under the processions of 31 CPR 1.158(a). In no event, however, may a righty be limitly filled.  Estensions of time may be available under the processions of 31 CPR 1.158(a). In no event, however, may a righty be limitly filled.  Estensions of time may be available under the processions of 31 CPR 1.158(a). In no event, however, may a righty be limitly filled.  Estensions of time may be available under the processions of 31 CPR 1.158(a). In no event, however, may a righty be limitly filled.  If NO period for righty is specified above, the maximum studiety probed will apply and will expire 30 K (b) MONTHS from the mainly date of this communication. Expired the maximum studiety probed will apply and will expire 30 K (b) MONTHS from the mainly date of this communication. Expired the maximum studiety process of the communication of the process of the communication. Expired the maximum studiety process of the communication of the communication. Expired the maximum studiety process of the communication. Expired the communication of the communication of the communication of the communication of the communication. Expired the communication of the communication.  Estensions of time and the communication of the communication of the communication of the communication. Expired the communication of the communication						
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2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-23 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) are subject to the extriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on favour is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No 3 poly complete the priority documents have been received in Application No	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply</li> <li>If NO period for reply is specified above, the maximum statutory period w</li> <li>Failure to reply within the set or extended period for reply will, by statute,</li> <li>Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	imely filed  ys will be considered timely. In the mailing date of this communication.  ED (35 U.S.C. § 133).			
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.S. Patent and Trademark Office	Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal				

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#### **DETAILED ACTION**

## **Drawings**

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the manner of a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings and **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 2, 10, 12-13, 16, 18, 20 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Brown et al (US6,201,739).

As per claims 1, 12, 18, 20 and 21, Brown discloses a flash-based unit for providing code to be executed by an external processor comprising a flash memory for

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storing the code to be executed [flash EPROM stores both code and data; col. 9, line 50], said flash memory being of a type such that the code cannot be executed in place from said flash memory [although a flash EPROM is used, NAND flash may be used as well; col. 5, lines 30-33]; and a volatile memory component for receiving at least a portion of the code to be executed, such that at least said portion of the code is executed by the external processor from said volatile memory component [the code of the flash memory is copied to volatile memory where the processor can satisfy the code fetch request; col. 4, lines 4-8].

As per claim 2, Brown discloses a logic for receiving a command to move said at least a portion of the code from said flash memory to said volatile memory component [col. 4, lines 4-10].

As per claims 10 and 16, Brown discloses a volatile memory component selected from the group consisting of SRAM or DRAM [col. 4, lines 1-3].

As per claim 13, Brown discloses a restricted non-volatile memory is a flash memory [col. 5, lines 30-32].

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al (US6,201,739) and Anderson et al (US6,295,577).

As per claim 3, Brown discloses the claimed invention as detailed above in the previous paragraphs. However, Brown does not specifically teach a power storage for storing at least a limited amount of power for supplying power to the flash-based unit if power is not otherwise available, power being drawn form said power storage when said logic determines that said power is not otherwise available as recited in the claim.

Anderson discloses a power storage for storing at least a limited amount of power for supplying power to the flash-based unit if power is not otherwise available, power being drawn form said power storage when said logic determines that said power is not otherwise available [power is supplied to the non-volatile memory upon loss of power; col. 6, lines 2-6].

As per claim 4, Brown discloses the claimed invention as detailed above in the previous paragraphs. However, Brown does not specifically teach a power storage providing only sufficient power to write data in said volatile memory to said flash memory as recited in the claim.

Anderson discloses a power storage providing only sufficient power to write data in said volatile memory to said flash memory [data is stored from volatile memory to non-volatile memory upon detection of loss of power; col. 5, lines 61-67].

As per claim 5, Brown discloses the claimed invention as detailed above in the previous paragraphs. However, Brown does not specifically teach the power storage is a capacitor as recited in the claim.

Anderson discloses the power storage is a capacitor [col. 3, lines 62-63].

It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Anderson before him at the time the invention was made, to modify the system of Brown to include a power storage for storing at least a limited amount of power for supplying power to the flash-based unit if power is not otherwise available, power being drawn form said power storage when said logic determines that said power is not otherwise available; a power storage providing only sufficient power to write data in said volatile memory to said flash memory and the power storage is a capacitor because it would have decreased system cost by using a back EMF to power the non-volatile memory rather than battery based systems [col. 5, lines 10-14] as taught by Anderson.

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6. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al (US6,201,739) and Mills et al (US6,385,688).

As per claims 6 and 7, Brown discloses the claimed invention as detailed above in the previous paragraphs. However, Brown does not specifically teach a single chip or die for containing all components of a flash based unit as recited in the claims.

Mills discloses a single chip or die for containing all components of a flash based unit [col. 20, lines 1-4].

It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Mills before him at the time the invention was made, to modify the system of Brown to include a single chip or die for containing all components of a flash based unit because it would have improved system performance by reducing or eliminating the lengthy process of obtaining information from disk when power is turned on [col. 9, lines 15-20] as taught by Mills.

7. Claims 8-9 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al (US6,201,739) and Nakata (US6,523,101).

As per claims 8 and 14, Brown discloses the claimed invention as detailed above in the previous paragraphs. However, Brown does not specifically teach a flash memory only permitting data to be read in one or more specific sizes of blocks as recited in the claim.

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Nakata discloses a flash memory only permitting data to be read in one or more specific sizes of blocks [ROM indicates copy size of initialization data to be stored into RAM; col. 3, lines 41-44].

It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Nakata before him at the time the invention was made, to modify the system of to include a flash memory only permitting data to be read in one or more specific sizes of blocks because it would have increased execution speed of the program by allowing the text codes stored on the ROM to be copied once into the RAM [col. 1, lines 43-46] as taught by Nakata.

As per claims 9 and 15, Brown discloses a flash memory is a NAND-type flash memory [although a flash EPROM is used, NAND flash may be used as well; col. 5, lines 30-33].

8. Claims 11, 17, 19 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al (US6,201,739) and Esfahani et al (US6,434,695).

As per claims 11, 17, 19 and 22, Brown discloses the claimed invention as detailed above in the previous paragraphs. However, Brown does not specifically teach executing the portion of the code to boot the system as recited in the claims.

Esfahani discloses executing the portion of the code to boot the system [col. 2, lines 6-12].

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It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Esfahani before him at the time the invention was made, to modify the system of Brown to include executing the portion of the code to boot the system because it would have provided increased reliability in the system by allowing run-time checks determining which hardware to initialize and which code to execute and install instead of having only the correct code built in [col. 10, lines 48-50] as taught by Esfahani.

As per claim 23, Esfahani discloses transferring a first portion of the code to said volatile memory component [col. 13, lines 13-18], said first portion of the code containing a command for copying a second portion of the code [col. 13, lines 19-22]; executing said command by said processor [col. 13, lines 21-22]; and copying said second portion of the code for booting the system [col. 13, lines 23-24].

### Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111 (c) to consider these references fully when responding to this action. The documents cited therein teach transferring code to be executed from flash memory to volatile and executing said code form volatile memory by a processor.

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10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pierre M. Vital whose telephone number is (703) 306-

5839. The examiner can normally be reached on Mon-Fri, 8:30 am - 6:00 pm, alternate

Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matt Kim can be reached on (703) 305-3821. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 746-7239 for

regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

9000.

Pierre M. Vital

May 4, 2003

REGINALD G. BRAGDON
PRIMARY EXAMINER

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